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# **WATER SUPPLY OUTLOOK FOR WASHINGTON**



**U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE**

Collaborating with

DEPARTMENT OF ECOLOGY STATE OF WASHINGTON

AS OF  
**APR. 1, 1975**

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*Cover Photo: Cabins near Sacajawea Snow Course  
in Bridger Mountains, Montana.*

SCS PHOTO 11-P480-15

### PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 111, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia





# **WATER SUPPLY OUTLOOK FOR WASHINGTON**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

*Issued by*

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## WATER SUPPLY OUTLOOK

State of Washington  
April 1, 1975

\*\*\*  
\*\* The water supply outlook for the state of Washington and tributary \*\*  
\*\* basins continues to be good, with a slight improvement over that \*\*  
\*\* which was reported last month. Valley precipitation was generally \*\*  
\*\* below normal, but mountain snow courses had a slightly greater \*\*  
\*\* than average pick up during the month. The result of these \*\*  
\*\* offsetting factors is a slight increase of most of the streamflow \*\*  
\*\* forecasts as of April 1. Last month there was a 75 percent possi- \*\*  
\*\* bility that the Okanogan River at Tonasket would exceed flood \*\*  
\*\* stage. With the increased volumetric forecast, there is now a \*\*  
\*\* higher probability that the river will go over flood stage. The \*\*  
\*\* National Weather Service forecast of flood stage is not available \*\*  
\*\* at this time. Power companies and irrigation districts, as well as \*\*  
\*\* the Bureau of Reclamation, have been releasing water from storage \*\*  
\*\* for the past couple of months. This has been done for two reasons. \*\*  
\*\* Adequate water is expected, with the spring runoff, to fill these \*\*  
\*\* reservoirs and on some streams, the dumping was done to prevent \*\*  
\*\* uncontrolled spills later in the season, thus reducing downstream \*\*  
\*\* damages. River flows were generally below normal, except from low \*\*  
\*\* elevation watersheds. Streamflow forecasts now range from a low \*\*  
\*\* of 2 percent below normal to a high of 30 percent above. \*\*  
\*\*\*  
\*\*\*\*\*

## SNOW COVER

Last years very excellent snow pack has generally not been exceeded during this 1974-75 snow build up season. A few drainages that were exceptions to the rule last year, again are exceptions this year. Six watersheds are now reported to have the same or a greater amount of water equivalent on the watershed than was reported last year; the rest, all less, ranging down to 35 percent less. When comparing this years snow pack to that which occurred in the very dry year of 1973, we have considerably more snow in all watersheds and on one, the Cedar River, the snow pack is 522 percent greater than was measured during that year. This number explains, in part, the elevation differences that we are experiencing this year. The lower elevation snow courses have more snow, percentagewise, than those at the upper elevations. This, in turn, will mean earlier runoff with some flashy peaks.

## RESERVOIRS

With minor exceptions, all reservoirs have well above normal amounts of water in storage at this time. The major irrigation reservoirs have water in storage only 62 percent of capacity and 90 percent of average. Power reservoirs have been reduced even further to take advantage of the power generation needs this winter and the abundance of snow behind the reservoirs.

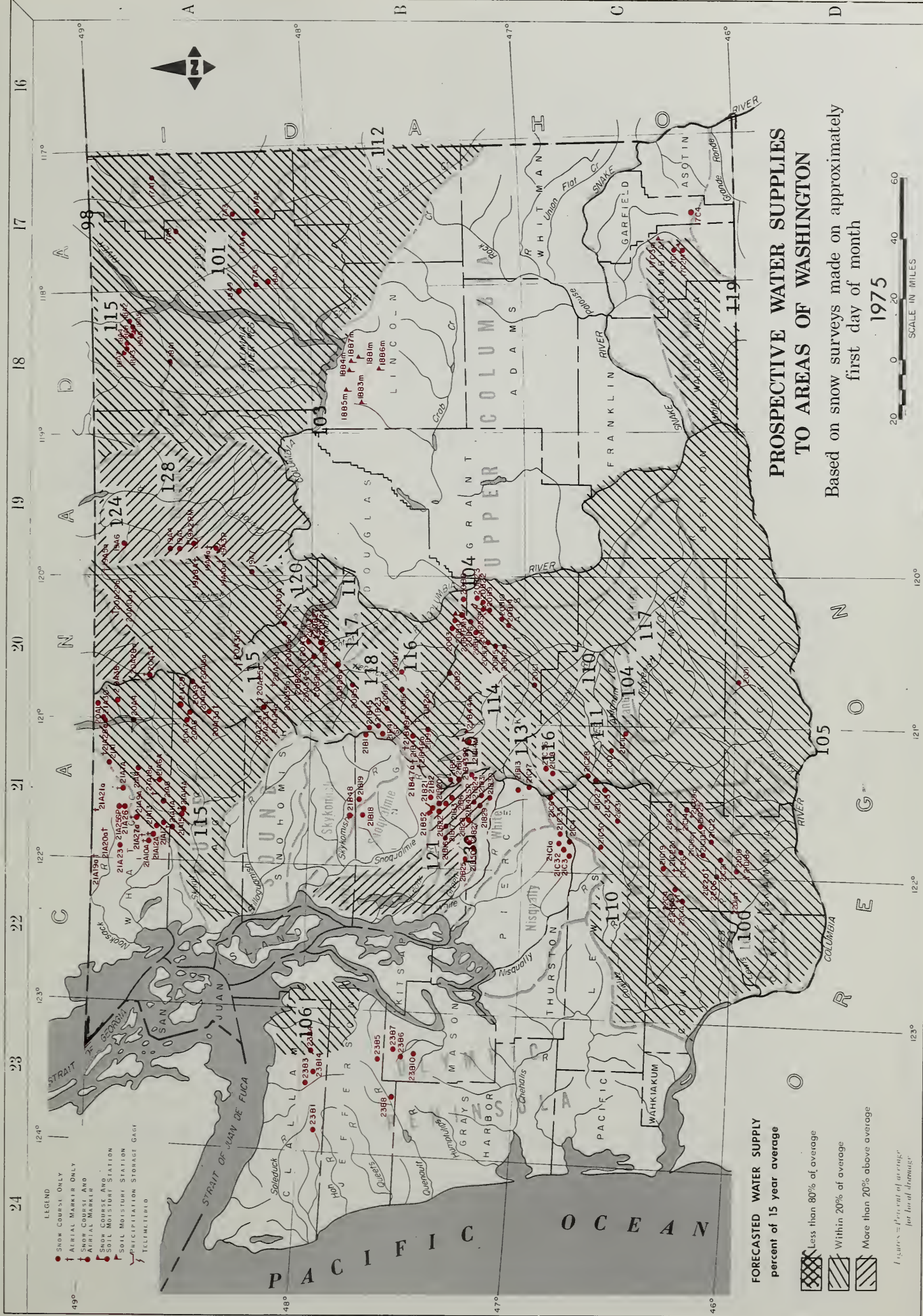
## PRECIPITATION

The National Weather Service reported rainfall at the valley stations to be above normal only in the northeastern and north-central portions of the state during the month of March. Winter precipitation, from November through March, still is well above average, while the fall rainfall amount, as previously reported, was negligible, ranging from 70 percent to 90 percent below normal. Soils beneath the snow pack are fairly dry and so some of this current snow pack will be required to bring these soil mantles to field capacity before runoff can take place.

## STREAMFLOW

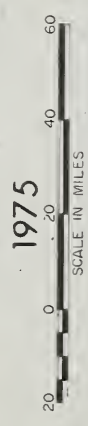
During the month of March, river runoff was generally below normal except from certain low elevation streams or where there was excessive evacuation of reservoirs, in anticipation of above normal inflows. The Palouse River, as measured at Hooper, had a flow 101 percent greater than average and the Okanogan at Tonasket had a flow 51 percent above normal. These are examples of the two conditions just mentioned. Forecasts of streamflow are expected to be near normal along the main stem of the Columbia and on the tributary basins from Montana. The Okanogan River system is expected to flow 24 percent and 28 percent above normal with the Methow expecting a 20 percent above normal flow. The Yakima, Wenatchee and Chelan River systems are expected to have an outflow between 10 percent and 20 percent above normal. On the Lower Columbia River system, the Lewis River is expected to have a normal outflow while the Cowlitz and Walla Walla Rivers are expected to be 10 percent and 20 percent above. On the west side, the rivers on the Olympic Peninsula are expected to flow less than 10 percent above normal while the Skagit, Cedar and Green River systems should have an outflow from 15 percent to 30 percent greater than average. Numerical forecasts can be found immediately following this narrative statement.





# PROSPECTIVE WATER SUPPLIES TO AREAS OF WASHINGTON

Based on snow surveys made on approximately  
first day of month  
1975



FORECASTED WATER SUPPLY  
percent of 15 year average

- Less than 80% of average
- Within 20% of average
- More than 20% above average

1:15,000 = Percent of average  
for local drainage

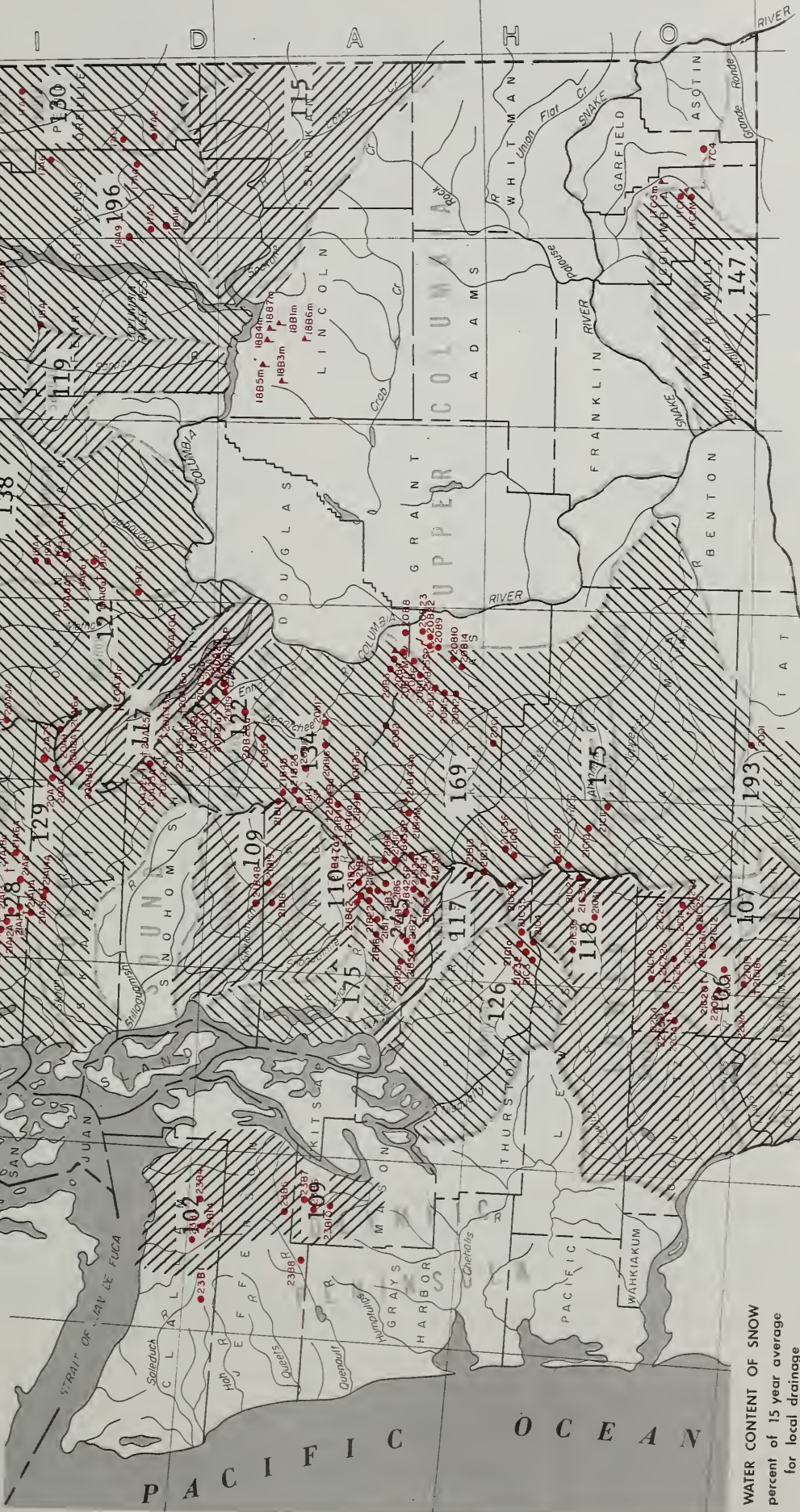


# INDEX to WASHINGTON SNOW COURSES, SOIL MOISTURE STATIONS and PRECIPITATION STORAGE GAGES

UPPER COLUMBIA DRAINAGE				LOWER COLUMBIA DRAINAGE				PUGET SOUND DRAINAGE				OLYMPIC PENINSULA				LEGEND			
NAME	NUMBER	SEC. TWP. RANGE	ELEV.	NAME	NUMBER	SEC. TWP. RANGE	ELEV.	NAME	NUMBER	SEC. TWP. RANGE	ELEV.	NAME	NUMBER	SEC. TWP. RANGE	ELEV.	NAME	NUMBER	SEC. TWP. RANGE	ELEV.
Pend Oreille River				Asofin Creek				Nisqually River				Dungeness River				SNOW COURSE ONLY			
Boyer Mountain	17A2	7 31N 43E	5250	Spruce Springs	17C4	9 8N 40E	5700	White River	21B13	30 18N 11E	6000	Deer Park	23B4	1 28N	5W	21A7	SNOW COURSE ONLY		
Bunchgrass Meadow	17A1	24 37N 44E	5000	Walters Flat	20B26a	16 23N 15E	5925	Green River	21B24	18 20N 11E	1800	Cox Valley	23B4	1 28N	5W	21A7	SNOW COURSE ONLY		
Winchester Creek	17A3	30 33N 43E	2970	Walters Flat	20B26a	16 23N 15E	5925	Green River	21B25	21 21N 9E	3200		23B4	1 28N	5W	21A7	SNOW COURSE ONLY		
Kettle River				Mill Creek				White River				Morse Creek				SNOW COURSE AND AERIAL MARKER			
Boulder Road	18A2	36 39N 36E	1150	Couse	17C3m	2 9N 40E	3370	White River	21B25P 21	21N 9E	3200		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Butte Creek	18A3	28 39N 35E	4070	Homestead	17C1	11 9N 40E	4030	White River	21B28 12	20N 8E	2100		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Cabin Creek	18A8	5 38N 36E	3170	Martin Springs (Helmers SX)	17C2N	23 9N 40E	4400	White River	21B29 36	20N 10E	3100		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Gnat Creek	18A4	26 39N 35E	3595					White River	21B31 5	19N 11E	4700		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Snow Caps Creek	18A5	3 38N 36E	2150					White River	21B35P 14	20N 11E	5000		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Snow Caps Trail	18A6	5 38N 36E	2720					White River	21B36 16	20N 11E	3860		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Summit G. S.	18A7	20 39N 35E	4600					White River	21B37 11	21N 9E	2400		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Colville River				Klickitat River				White River				Elwha River				SNOW COURSE AND AERIAL MARKER			
Baird	17A6	19 36N 42E	3215	Satus Pass	20D1	21 6N 17E	4030	White River	21B38 18	19N 11E	4100		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Carlson	18A9	34 32N 38E	2885					White River	21B39 10	21N 10E	2390		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Chewelah	17A4	11 32N 41E	4925					White River	21B40 25	20N 11E	3860		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Stranger Mountain	17A5	26 31N 38E	4990					White River	21B41 30	22N 10E	3500		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Togo	18A10	6 29N 38E	3370					White River	21B42 31	22N 9E	2500		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Sonpoil River				Lewis River				White River				Skokomish River				SNOW COURSE AND AERIAL MARKER			
Sherman Creek Pass	18A1	19 36N 35E	5350	Blue Lake	21C22a	19 9N 8E	4800	White River	21B43 8	22N 9E	3000		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Okanogon River				Rob's Trail				White River				Skokomish River				SNOW COURSE AND AERIAL MARKER			
Clark	19A8a	2 36N 23E	7000	Council Pass	21C18a	24 5N 9E	4200	White River	21B44 11	21N 9E	2400		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Muckamuck	19A9a	20 36N 24E	6750					White River	21B45 24	21N 10E	3000		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Mutton Creek No. 1	19A1	30 37N 24E	5700					White River	21B46 1	21N 10E	3400		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Mutton Creek No. 2	19A4	19 37N 24E	6000					White River	21B47 3	21N 10E	3500		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Payasayten	20A38a	32 40N 18E	4300					White River	21B48 36	20N 10E	3100		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Rusty Creek	19A3P	18 35N 24E	4500					White River	21B49 21	20N 8E	4000		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Salmon Meadows	19A2P	33 37N 24E	4500					White River	21B50 18	19N 11E	4100		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Starvation Mtn.	19A10a	15 35N 23E	6750					White River	21B51 10	21N 10E	2390		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Touts Coulee	19A6	30 39N 25E	2845					White River	21B52 31	22N 9E	2500		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Methow River				Solomon River				White River				Elwha River				SNOW COURSE AND AERIAL MARKER			
Billy Goat Pass	20A10a	10 38N 20E	6400	Cutus Creek	21C12	35 7N 8E	4000	White River	21B53 8	22N 9E	2500		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Dollar Watch	20A29a	8 39N 20E	7000	Lewis River	21C22a	19 9N 8E	4800	White River	21B54 11	21N 9E	2400		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Harts Pass	20A5A	7 37N 18E	6500	Blue Lake	21C22a	19 9N 8E	4800	White River	21B55 24	21N 10E	3000		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Horseshoe Basin	19A5A	15 40N 23E	7000	Rob's Trail	21C21	25 8N 7E	2200	White River	21B56 1	21N 10E	3400		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Loup Loop	19A7	36 34N 23E	4650	Council Pass	21C18a	24 5N 9E	4200	White River	21B57 3	21N 10E	3500		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Chelon Lake Basin				Stevens Pass				White River				Elwha River				SNOW COURSE AND AERIAL MARKER			
Cloudy Pass	20A22a	12 31N 15E	6500					White River	21B58 18	19N 11E	4100		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Greenwood Flat	20A25a	3 31N 16E	3540					White River	21B59 10	21N 10E	2390		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Little Meadows	20A24a	8 31N 16E	5275					White River	21B60 25	20N 11E	3860		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Lynan Lake	20A23a	18 31N 16E	5900					White River	21B61 30	22N 10E	3500		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Park Creek Flat	20A13a	19 34N 16E	2220					White River	21B62 31	22N 9E	2500		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Park Creek Ridge	20A12a	18 34N 16E	4600					White River	21B63 8	22N 9E	3000		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Petersons	20A16a	3 34N 17E	3730					White River	21B64 11	21N 9E	2400		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Rainy Pass	20A19	21 35N 17E	4780					White River	21B65 24	21N 10E	3000		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Safety Harbor	20A30a	32 31N 20E	6300					White River	21B66 1	21N 10E	3400		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
War Creek Pass	20A31a	34 33N 18E	6500					White River	21B67 3	21N 10E	3500		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Entiat River				Solomon River				White River				Elwha River				SNOW COURSE AND AERIAL MARKER			
Blue Creek G.S.	20B28a	19 28N 18E	5425	Cutus Creek	21C12	35 7N 8E	4000	White River	21B68 18	19N 11E	4100		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Brief	20B19	34 28N 19E	1600	Lewis River	21C22a	19 9N 8E	4800	White River	21B69 10	21N 10E	2390		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Entiat Meadows	20A33a	28 31N 17E	4800	Blue Lake	21C22a	19 9N 8E	4800	White River	21B70 25	20N 11E	3860		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Entiat River Trail	20A34a	2 29N 17E	3150	Rob's Trail	21C21	25 8N 7E	2200	White River	21B71 30	22N 10E	3500		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Four Mile Ridge	20B27a	15 28N 19E	7100	Council Pass	21C18a	24 5N 9E	4200	White River	21B72 3	21N 10E	3500		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Fox Camp	20A36a	17 30N 18E	6510					White River	21B73 8	22N 9E	3000		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Pope Ridge	20B20	22 29N 18E	4300					White River	21B74 11	21N 9E	2400		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Pope Ridge Snow Pillow	20B24SP	22 29N 18E	4300					White River	21B75 24	21N 10E	3000		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Pugh Ridge	20A32a	34 30N 18E	6400					White River	21B76 1	21N 10E	3400		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Shady Pass	20A37	20 29N 19E	6200					White River	21B77 3	21N 10E	3500		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Snow Brushy	20A35a	21 30N 17E	3850					White River	21B78 8	22N 9E	3000		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Tommy Creek	20B21a	10 28N 18E	5300					White River	21B79 11	21N 9E	2400		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Wenatchee River				Solomon River				White River				Elwha River				SNOW COURSE AND AERIAL MARKER			
8erne-Mill Creek	21B23	7 26N 15E	3170	Cutus Creek	21C12	35 7N 8E	4000	White River	21B80 18	19N 11E	4100		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
8erne-Mill Creek (New)	21B41SP	13 26N 14E	3240	Lewis River	21C22a	19 9N 8E	4800	White River	21B81 30	22N 10E	3500		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
8lewett Pass No. 2	20B2	35 22N 17E	4270	Blue Lake	21C22a	19 9N 8E	4800	White River	21B82 31	22N 9E	2500		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Chiwaukum G. S.	20B16	4 25N 17E	1810	Rob's Trail	21C21	25 8N 7E	2200	White River	21B83 8	22N 9E	3000		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Lake Wenatchee	20B5	33 27N 17E	1970	Council Pass	21C18a	24 5N 9E	4200	White River	21B84 11	21N 9E	2400		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Leavenworth R. S.	20B17	1 24N 17E	1127					White River	21B85 24	21N 10E	3000		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Merritt	20B18	4 26N 16E	2140					White River	21B86 1	21N 10E	3400		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Stevens Pass	21B1	14 26N 13E	4070					White River	21B87 3	21N 10E	3500		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		
Stevens Sand Shed	21B45	12 26N 19E	3700					White River	21B88 8	22N 9E	3000		23B4	1 28N	5W	21A7	SNOW COURSE AND AERIAL MARKER		



- LEGEND
- SNOW COURSEL ONLY
  - ▲ AERIAL MARKER ONLY
  - SNOW COURSE AND AERIAL MARKER
  - SNOW COURSEL AND SOIL MOISTURE STATION
  - SOIL MOISTURE STATION
  - PRECIPITATION STORAGE GAGE
  - TELEMETRIER

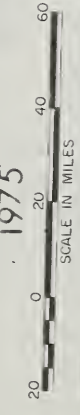


# WASHINGTON SNOW COVER

Snow equivalent compared to average 15 years (1958-72)

- WATER CONTENT OF SNOW percent of 15 year average for local drainage
- Less than 80% of average
  - Within 20% of average
  - More than 20% above average

1:125,000 - 1/2" = 1 mile for local drainage





INDEX to WASHINGTON SNOW COURSES, SOIL MOISTURE STATIONS and PRECIPITATION STORAGE GAGES

UPPER COLUMBIA DRAINAGE																	LOWER COLUMBIA DRAINAGE																	PUGET SOUND DRAINAGE																	OLYMPIC PENINSULA																																	
NAME	NUMBER	SEC.	TWP.	RANGE	ELEV.	NAME	NUMBER	SEC.	TWP.	RANGE	ELEV.	NAME	NUMBER	SEC.	TWP.	RANGE	ELEV.	NAME	NUMBER	SEC.	TWP.	RANGE	ELEV.	NAME	NUMBER	SEC.	TWP.	RANGE	ELEV.	NAME	NUMBER	SEC.	TWP.	RANGE	ELEV.																																																	
Pend Oreille River																																		Wenatchee River (continued)																	Lewis River (continued)																	Skagit River																
Boyer Mountain	17A2	7	31N	43E	5250	Trough #2	20B25SF	10	20N	20E	5310	Colockum Creek	20B22	11	20N	20E	5300	Divide Meadow	21C29a	21	9N	10E	5606	Beaver Creek Trail	21A4	35	39N	12E	2200	Beaver Pass	21A1	9	39N	12E	3680																																																	
Bunchgrass Meadow	17A1	24	37N	44E	5000	Colockum Creek Upper	20B22	11	20N	20E	5300	Colockum Creek Lower	20B23	1	20N	20E	4300	Grand Meadow	21C25	28	8N	9E	3500	Brown Top	21A28a	26	40N	12E	6000	Devils Park	20A4	34	38N	16E	5900																																																	
Winchester Creek	17A3	30	33N	43E	2970	Squilchuck Creek	20B23	1	20N	20E	4300	Seehive Springs	20B3	12	21N	19E	4400	Marble Mountain	21C26a	24	8N	5L	3200	Freezcount Creek Tr. il	20A1	14	40N	14E	3500	Freezcount Meadow New	20A38	8	40N	16E	5000																																																	
Kettle River																																		Squilchuck Creek																	Stemilt Creek																	Cowlitz River																
Boulder Road	18A2	36	39N	36E	1450	Scout-A-Vista	20B4	18	21N	20E	3400	Scout-A-Vista	20B4	18	21N	20E	3400	Oldman Pass	21D19	22	6N	7E	3100	Plains of Abraham	22C1a	35	9N	5E	4400	Granite Creek	21A29	25	36N	16E	3500																																																	
Butte Creek	18A3	28	39N	35E	4070	Scout-A-Vista	20B4	18	21N	20E	3400	Scout-A-Vista	20B4	18	21N	20E	3400	Smith Creek Road	22C1a	35	9N	5E	4400	Spencer Meadow	21C20a	16	8N	7E	3400	Meadows Cabins	20A8	29	36N	14E	1900																																																	
Cabin Creek	18A6	5	38N	36E	3170	Scout-A-Vista	20B4	18	21N	20E	3400	Scout-A-Vista	20B4	18	21N	20E	3400	Spencer Meadow	21C20a	16	8N	7E	3400	Surprise Lakes	21C13a	14	7N	8E	4250	New Hozomeen Lake	20A7	19	40N	14E	2800																																																	
Gout Creek	18A4	26	39N	35E	3595	Scout-A-Vista	20B4	18	21N	20E	3400	Scout-A-Vista	20B4	18	21N	20E	3400	Jump-Off	20B8	34	21N	20E	4450	Table Mountain	21C24a	20	9N	9E	4200	Thunder Basin	21A30	10	35N	14E	4200																																																	
Snow Caps Creek	18A5	3	38N	36E	2150	Scout-A-Vista	20B4	18	21N	20E	3400	Scout-A-Vista	20B4	18	21N	20E	3400	Summit Slide	20B6	30	21N	20E	5000	Timbered Peak	21D18a	36	6N	6E	3000																																																							
Snow Caps Trail	18A6	5	38N	36E	2720	Scout-A-Vista	20B4	18	21N	20E	3400	Scout-A-Vista	20B4	18	21N	20E	3400	Upper Wheeler	20B7PM	30	21N	20E	4400																																																													
Summit G. S.	18A7	20	39N	35E	4600	Scout-A-Vista	20B4	18	21N	20E	3400	Scout-A-Vista	20B4	18	21N	20E	3400																																																																			
Colville River																																		Crab Creek																	Yakima River																	Sonpoil River																
Baird	17A6	19	36N	42E	3215	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400																																											
Carlson	17A9	34	32N	38E	2885	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400																																											
Chewelah	17A4	11	32N	41E	4925	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400																																											
Stranger Mountain	17A5	26	31N	38E	4990	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400																																											
Togo	18A10	6	29N	38E	3370	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400																																											
Sonpoil River																																		Crab Creek																	Yakima River																	Sonpoil River																
Sherman Creek Pass	18A1	19	36N	35E	5350	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400																																											
Okanogan River																																		Crab Creek																	Yakima River																	Sonpoil River																
Clark	19A8a	2	36N	23E	7000	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400																																											
Muckamuck	19A9a	20	36N	24E	6750	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400																																											
Mutton Creek No. 1	19A1	30	37N	24E	5700	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400																																											
Mutton Creek No. 2	19A4	19	37N	24E	6000	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400																																											
Pay-sayten	20A28a	32	40N	18E	4300	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400																																											
Rusty Creek	19A3P	18	35N	24E	4000	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400																																											
Salmon Meadows	19A2PM	33	37N	24E	4500	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400																																											
Starvation Mtn.	19A10a	15	35N	23E	6750	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400																																											
Touts Coulee	19A6	30	39N	25E	2845	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400																																											
Methow River																																		Crab Creek																	Yakima River																	Sonpoil River																
Billy Goat Pass	20A10a	10	38N	20E	6400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400																																											
Dollar Watch	20A29a	8	39N	20E	7000	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400																																											
Harts Pass	20A5a	7	37N	18E	6500	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400																																											
Horseshoe Basin	19A5a	15	40N	23E	7000	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400																																											
Loup Loop	19A7	36	34N	23E	4650	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400	Crab Creek	20B7PM	30	21N	20E	4400																																											
Chelan Lake Basin																																		Crab Creek																	Yakima River																	Sonpoil River																
Cloudy Pass	20A22a	12	31N	15E	6500	Crab Creek	20B7PM	30	21N	20E																																																																										



# STREAMFLOW FORECASTS - APRIL 1975

The following summarized runoff forecasts are based principally on mountain snow-cover and on the assumption that precipitation and temperature will be near average from the present time to the end of the forecast period. Appreciable deviations from normal of temperature and/or precipitation will correspondingly modify these forecasts. Streamflow figures for 1974 are preliminary and subject to revision.

Basin, Stream and Station	Forecast Runoff 1975	Seasonal % 15-Yr. Avg.	Streamflow in Thousands of Acre-Feet Fore- cast period	15-Yr Average			
				1974	1973	1972	58-72
<u>COLUMBIA BASIN</u>							
<u>Columbia River System</u>							
Columbia River	45700	98	Apr-Sep	54227	34796	56680	46430
at Birchbank <u>1/</u>	36800	98	Apr-Jul	44492	27876	46587	37548
	26200	95	Apr-Jun	31893	20203	34333	27549
Columbia River	71000	103	Apr-Sep	85139	45849	85860	68868
at Grand Coulee <u>1/</u>	60500	104	Apr-Jul	73671	38193	73431	58379
	46800	102	Apr-Jun	57033	29886	57727	46060
Columbia River	78400	104	Apr-Sep	96939	49117	97430	75337
bl Rock Island Dam <u>1/</u>	65800	103	Apr-Jul	84480	41200	84085	64192
	52000	103	Apr-Jun	65246	32032	66051	50604
Columbia River	110000	105	Apr-Sep	139724	65162	135452	104670
at The Dalles, Or <u>1/</u>	94000	105	Apr-Jul	123569	54260	118552	89893
	76500	105	Apr-Jun	99282	43395	96933	73158
<u>Pend Oreille River System</u>							
Pend Oreille River	16400	103	Apr-Sep		8311	20294	15953
bl. Box Canyon	15000	102	Apr-Jul		7614	18724	14688
	12750	100	Apr-Jun		6756	16109	12777
<u>Kettle River System</u>							
Kettle River	2160	115	Apr-Sep	2831	1121	2289	1873
nr. Laurier	2090	116	Apr-Jul	2752	1093	2205	1793
	1850	113	Apr-Jun	2476	1020	1965	1640

1/ Observed flow corrected for storage in any of the following reservoirs which are above the station: Kootenay Lake, Hungry Horse, Flathead Lake, Pend Oreille Lake, F. D. Roosevelt Lake, Lake Chelan, Coeur d'Alene Lake, Brownlee, Noxon Reservoir and pumpage at F. D. Roosevelt Lake.

Basin, Stream and Station	Forecast Runoff 1975	Seasonal Streamflow in Thousands of Acre-Feet					
		% 15-Yr. Avg.	Fore- cast Period	1974	1973	1972	15-Yr Average 58-72
<u>Kettle River System (Cont.)</u>							
Colville River							
at Kettle Falls	150	101	Apr-Sep	286	54	114	148
	140	102	Apr-Jul	269	50	103	137
	130	102	Apr-Jun	252	48	94	128
<u>Spokane River System *</u>							
Spokane River	3350	112	Apr-Sep		1140	4002	2983
at Post Falls, ID <u>2/</u>	3250	112	Apr-Jul		1082	3875	2899
	3100	112	Apr-Jun		1022	3644	2773
<u>Okanogan River System</u>							
Similkameen River	1880	124	Apr-Sep	2216	736	3259	1517
nr. Nighthawk	1770	124	Apr-Jul	2092	697	3090	1424
	1520	124	Apr-Jun	1710	621	2568	1222
Okanogan River	2210	128	Apr-Sep	2757	765	3852	1723
nr. Tonasket	2060	130	Apr-Jul	2534	707	3523	1582
	1740	129	Apr-Jun	2029	622	2895	1349
<u>Methow River System</u>							
Methow River	1240	120	Apr-Sep		512	1959	1031
nr. Pateros	1160	120	Apr-Jul		476	1819	963
	1000	120	Apr-Jun		417	1524	832
<u>Chelan River System</u>							
Chelan River	1470	117	Apr-Sep	1765	777	1866	1253
at Chelan <u>3/</u>	1310	118	Apr-Jul	1524	680	1619	1112
	1040	118	Apr-Jun	1127	544	1250	881
Stehekin River	1040	115	Apr-Sep		541	1235	904
at Stehekin	885	114	Apr-Jul		447	1044	776
	660	110	Apr-Jun		352	772	600
Entiat	280	117	Apr-Sep		145	398	239
nr. Ardenvoir	255	116	Apr-Jul		131	361	220
	210	118	Apr-Jun		113	283	180

\* Forecasts made by Jack A. Wilson, Soil Conservation Service, Boise, Idaho.

2/ Observed flow corrected for storage in Coeur d'Alene Lake and diversions by Spokane Valley Farms Company and Rathdrum Prairie Canals.

3/ Observed flow corrected for storage in Lake Chelan.

Basin, Stream and Station	Forecast Runoff 1975	Seasonal Streamflow in Thousands of Acre-Feet					
		% 15-Yr. Avg.	Fore- cast period	1974	1973	1972	15-Yr. Average 58-72
<u>Wenatchee River System</u>							
Wenatchee River	1550	118	Apr-Sep	1910	790	1926	1312
at Plain	1390	117	Apr-Jul	1652	709	1686	1187
	1100	115	Apr-Jun	1188	589	1272	956
Wenatchee River	2070	116	Apr-Sep	2556	1033	2787	1786
at Peshastin	1900	117	Apr-Jul	2232	938	2464	1629
	1540	116	Apr-Jun	1632	786	1883	1324
Stemilt Basin nr. Wenatchee	145	105	May-Sep			145*	138*
<u>Yakima River System</u>							
Yakima River	170	120	Apr-Sep	231	83	213	142
Nr. Martin <u>4/</u>	155	119	Apr-Jul	214	76	192	131
	130	112	Apr-Jun	170	70	160	116
Yakima River	1100	114	Apr-Sep		555	1515	965
at Cle Elum <u>5/</u>	1010	115	Apr-Jul		489	1374	877
	880	115	Apr-Jun		433	1156	764
Yakima River	2020	117	Apr-Sep		582	3231	1730
nr. Parker <u>6/</u>	1990	117	Apr-Jul		590	3071	1701
	1850	117	Apr-Jun		598	2694	1580
Kachess River	150	120	Apr-Sep	207	66	196	125
nr. Easton <u>7/</u>	140	118	Apr-Jul	193	63	182	118
	125	118	Apr-Jun	156	59	153	106
Cle Elum River	570	120	Apr-Sep	745	285	750	477
nr. Roslyn <u>8/</u>	525	120	Apr-Jul	664	255	673	437
	450	121	Apr-Jun	500	220	538	372

\* Thousands of Miners' inches.

4/ Observed flow corrected for storage in Lake Keechelus.

5/ Observed flow corrected for storage in Keechelus, Kachess and Cle Elum Lakes and diversion by Kittitas Canal.

6/ Observed flow corrected for storage in Keechelus, Kachess, Cle Elum, Bumping and Rimrock Lakes and diversions by Roza, Union Gap, New Reservation, Old Reservation and Sunnyside Canals.

7/ Observed flow corrected for storage in Lake Kachess.

8/ Observed flow corrected for storage in Lake Cle Elum.

Basin, Stream and Station	Forecast Runoff 1975	Seasonal Streamflow in Thousands of Acre-Feet					
		% 15-Yr. Avg.	Fore- cast period	1974	1973	1972	15-Yr. Average 58-72
<u>Yakima River System (Cont.)</u>							
Bumping River	170	116	Apr-Sep	230	74	228	146
nr. Nile <u>9/</u>	155	116	Apr-Jul	206	68	203	134
	130	116	Apr-Jun	152	61	155	112
American River	145	113	Apr-Sep		70	186	128
nr. Nile	135	114	Apr-Jul		65	169	118
	110	110	Apr-Jun		58	137	100
Tieton River	275	111	Apr-Sep	405	160	407	247
at Tieton Dam <u>10/</u>	225	107	Apr-Jul	337	124	342	211
	190	110	Apr-Jun	255	99	267	172
Naches River	980	110	Apr-Sep		442	1477	889
nr. Naches <u>11/</u>	910	112	Apr-Jul		385	1339	810
	780	112	Apr-Jun		336	1106	698
Ahtanum Creek	50	104	Apr-Sep		21	75	48
nr. Tampico <u>12/</u>	45	102	Apr-Jul		18	69	44
	40	103	Apr-Jun		16	59	39
<u>Lower Columbia River System</u>							
Mill Creek	32	119	Apr-Sep		17	34	27
nr. Walla Walla	28	117	Apr-Jul		13	29	24
	25	119	Apr-Jun		11	26	21
Lewis River	1340	100	Apr-Sep	1872	800	1597	1319
at Ariel <u>13/</u>	1170	100	Apr-Jul	1684	666	1392	1151
	1050	100	Apr-Jun	1420	574	1236	1028
Cowlitz River	2320	110	Apr-Sep		1252	3048	2106
Blw. Mayfield Dam	2030	110	Apr-Jul		1068	2672	1846
	1740	110	Apr-Jun		904	2201	1578
Cowlitz River	2940	106	Apr-Sep	4296	1676	3819	2768
at Castle Rock <u>14/</u>	2580	107	Apr-Jul	3850	1419	3331	2416
	2210	106	Apr-Jun	3158	1212	2782	2083

9/ Observed flow corrected for storage in Bumping Lake.

10/ Observed flow corrected for storage in Rimrock Lake.

11/ Observed flow corrected for storage in Bumping and Rimrock Lakes and diversions by Tieton, Selah Valley, Wapatox Canals and City of Yakima.

12/ Observed flow of North and South Forks (Combined).

13/ Observed flow corrected for storage in Lake Merwin, Yale and Swift Reservoirs.

14/ Observed flow corrected for storage in Mayfield Reservoir.



Basin, Stream and Station	Forecast Runoff 1975	Seasonal Streamflow in Thousands of Acre-Feet					
		%	Fore-	15-Yr.			
		15-Yr. Avg.	cast period	1974	1973	1972	15-Yr. Average 58-72

#### OLYMPIC PENINSULA

##### Dungeness River System

Dungeness River	175	106	Apr-Sep		120	207	165
nr. Sequim	150	109	Apr-Jul		98	171	137
	115	110	Apr-Jun		74	127	104

#### PUGET SOUND

##### Skagit River System

Skagit River	2600	115	Apr-Aug	2978	1519	3402	2260
at Newhalem <u>15/</u>							

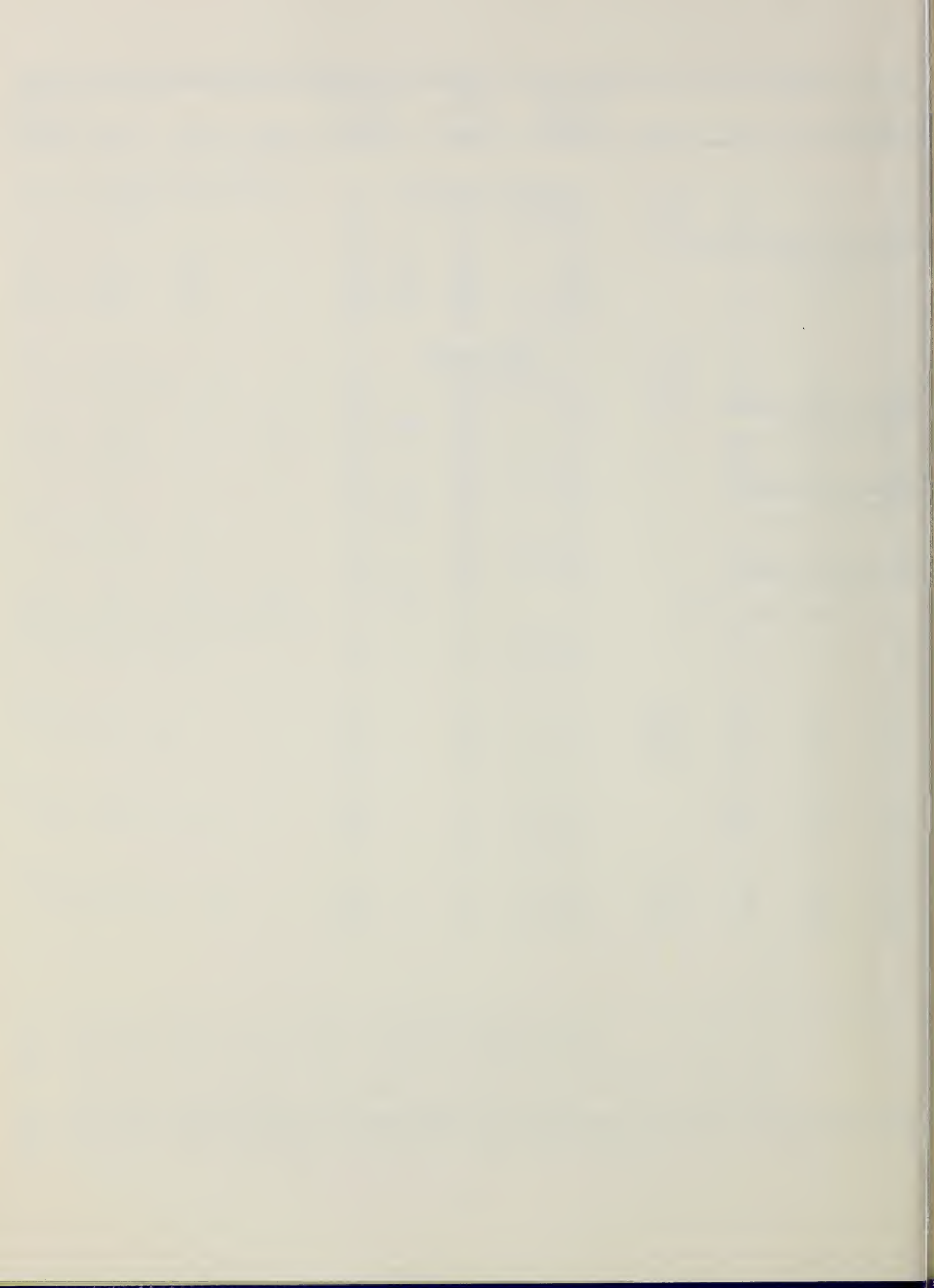
##### Cedar River System

Cedar River	110	121	Apr-Sep		53	122	91
at Cedar Falls							

##### Green River System

Green River	405	130	Apr-Sep	484	165	434	312
bl. Howard Hansen Dam							

15/ Observed flow corrected for storage in Diablo, Ross, and Gorge Reservoirs.



# COMPARISON OF SNOW COVER WITH THAT OF PREVIOUS YEARS

The following tabulation of Washington stream basins presents the water content of the snow about April 1, 1975 as percent of the same date in 1974 and 1973 and average of record

Tributary Basin	No. of Courses Average	1975 Snow Water Expressed as percent of		
		1974	1973	1958-72 Avg.

## UPPER COLUMBIA BASIN

Pend Oreille	18	104	183	130
Kettle	17	127	160	154
Colville	5	109	288	196
Spokane	16	82	259	115
Okanogan	43	90	163	138
Methow	10	69	157	122
Chelan	5	78	165	117
Entiat	10	80	184	122
Wenatchee	10	85	333	134
Yakima	26	91	248	169
Ahtanum	2	100	157	175

## LOWER COLUMBIA

Mill Creek	3	72	379	147
Klickitat	1	102	-	193
White Salmon	2	65	238	107
Lewis	18	76	246	106
Cowlitz	10	78	221	118

## PUGET SOUND

Nisqually	4	79	201	126
White	3	80	170	117
Green	8	79	292	245
Cedar	7	87	622	175
Snoqualmie	3	64	254	110
Skykomish	3	74	221	109
Skagit	14	104	209	129
Baker	11	90	155	128
Nooksack	5	67	139	120

## OLYMPIC PENINSULA

Skokomish	4	73	157	109
Elwha	1	73	162	102

# RESERVOIR STORAGE - 1000 ACRE FEET

BASIN OR STREAM	RESERVOIR	USABLE 1/ CAPACITY	Measured (April)			
			1975	1974	1973	Normal*
<u>COLUMBIA</u>						
Spokane	Coeur d'Alene Lake	225.1	85.5	263.5	83.9	174.1
Columbia	Franklin D. Roosevelt Lake	5232.0	1682.3	-1878.4	1546.3	1821.8
Columbia	Banks Lake	761.8	688.2	690.8	592.0	581.4
Okanogan	Conconully Reservoir	13.0	11.7	7.2	11.8	11.8
Okanogan	Salmon Lake	10.5	9.2	7.4	9.5	7.5
Chelan	Lake Chelan	676.1	62.0	157.0	121.4	179.3
<u>YAKIMA</u>						
Yakima	Keechelus Lake	157.8	96.1	114.4	112.1	107.8
Kaches	Kachess Lake	239.0	163.8	122.1	196.8	190.2
Cle Elum	Lake Cle Elum	436.9	266.4	225.0	340.5	283.2
Bumping	Bumping Lake	33.7	2.7	5.8	11.7	11.4
Tieton	Rimrock Lake	198.0	128.6	151.2	160.8	141.7
<u>PUGET SOUND</u>						
Skagit	Ross Reservoir	1202.0	531.4	785.7	734.2	768.5
Skagit	Diablo Reservoir	90.6	85.3	83.8	87.5	85.5
Skagit	Gorge Reservoir	9.8	8.2	8.2	8.4	-

<sup>1/</sup> Based on Active Storage

\* 15-year Average 1958-72



# SOIL MOISTURE - APRIL

Drainage Basin and Station	Number	Elev.	Profile Depth	Inches Total Capacity	Soil Moisture Content Inches as of April 1		
					1975	1974	1973
<u>OKANOGAN</u>							
Salmon Meadows	19A2M	4500	48	5.4	3.1	3.7	3.0
Trout Creek	3-M	3600	48	7.3	3.4	4.2	3.7
<u>YAKIMA</u>							
Domery Flat	21B20m	2200	48	6.9	-	4.9	5.2
Lake Cle Elum	21B14M	2200	48	12.8	-	9.3	9.2
<u>WALLA WALLA</u>							
Couse	17C3m	3650	48	11.1	9.4	10.3	7.6
Helmets	17C2M	4400	48	12.0	11.2	10.1	10.6
<u>WENATCHEE</u>							
Upper Wheeler	20B7M	4400	48	12.7	8.6	11.1	8.9

# FALL SOIL MOISTURE

Drainage Basin and Station	Number	Elev.	Profile Depth	Inches Total Capacity	Soil Moisture Content Inches as of Oct. 1		
					1974	1973	1972
<u>OKANOGAN</u>							
Salmon Meadows	19A02M	4500	48	5.4	1.8	2.6	2.8
Trout Creek	3-M	3600	48	7.3	3.0	2.8	3.3
<u>YAKIMA</u>							
Domery Flat	21B20m	2200	48	6.9	-	2.6	4.1
Lake Cle Elum	21B14M	2200	48	12.8	-	6.1	8.7
<u>WALLA WALLA</u>							
Couse	17C3m	3650	48	11.1	-	5.6	6.0
Helmets	17C2M	4400	48	12.0	-	7.6	7.7
<u>WENATCHEE</u>							
Upper Wheeler	20B7M	4400	48	12.7	5.4	6.0	5.8

# PRECIPITATION 1/

## Division Averages and Departures

Drainage Divisions	FALL		WINTER	
	Sept-Oct Observed	1974 <u>2/</u> Departure	Nov. 1974 - Observed	Mar. 1975 <u>2/</u> Departure
Columbia in Canada	1.22	-3.25	13.42	+0.67
Pend Oreille - Spokane	0.71	-3.77	21.69	+2.99
Northeastern Washington	0.30	-2.48	14.78	+3.67
Southeastern Washington	0.31	-2.92	15.27	+1.80
Central Washington	1.21	-3.54	31.75	+4.22
North Central Washington	0.37	-1.25	7.93	+1.21
Northwest Slope Cascades	3.25	-9.44	59.41	+7.18
Southwest Slope Cascades	2.49	-6.19	44.71	+3.07
Northeastern Washington		- Lower Spokane, Colville, Sanpoil and lower Kettle Drainages.		
Southeastern Washington		- Touchet, Tucannon and Palouse Drainages.		
Central Washington		- Yakima, Wenatchee and Chelan Drainages.		
North Central Washington		- Methow and Okanogan Drainages.		
Northwest Slope Cascades		- Puget Sound Drainages.		
Southwest Slope Cascades		- Lower Columbia Drainages.		

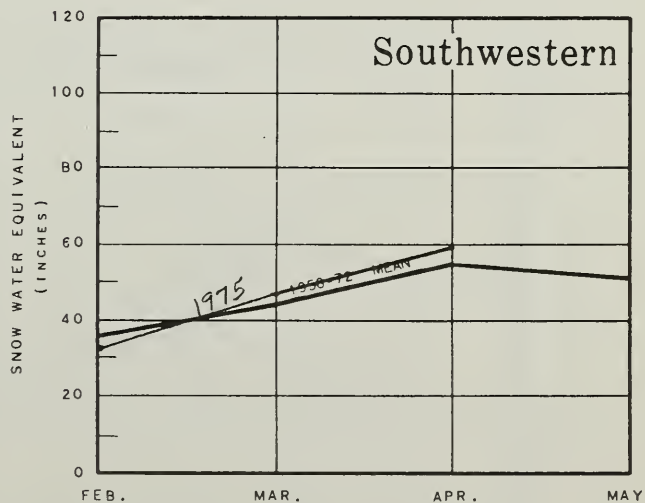
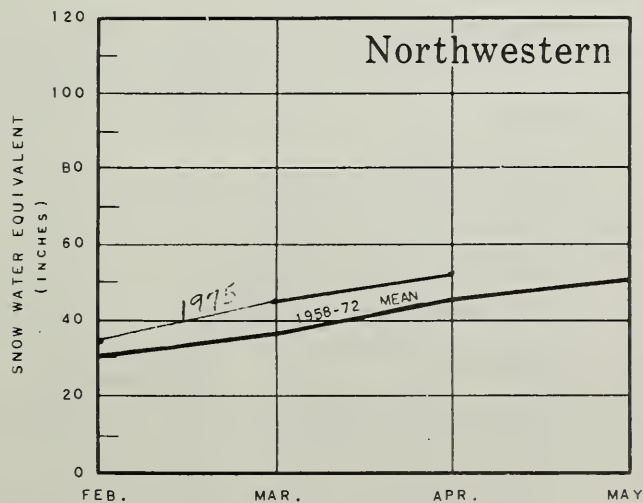
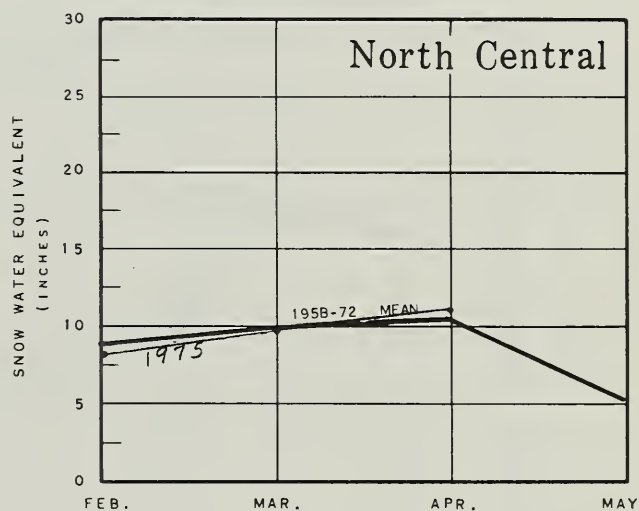
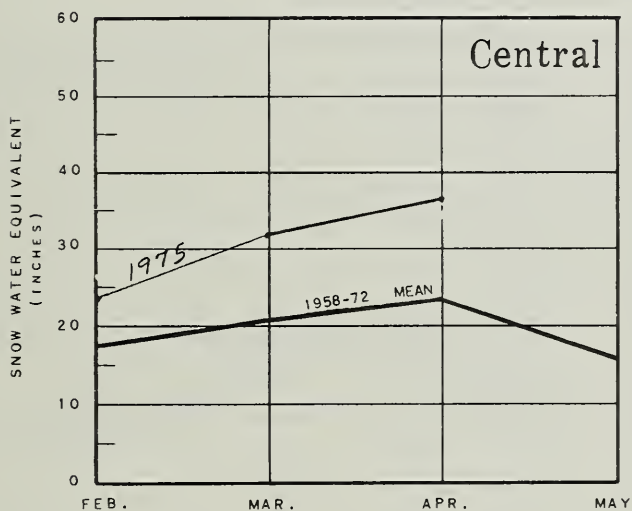
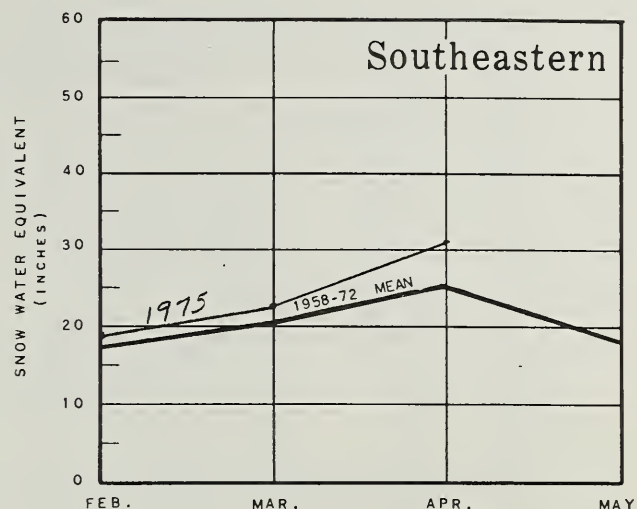
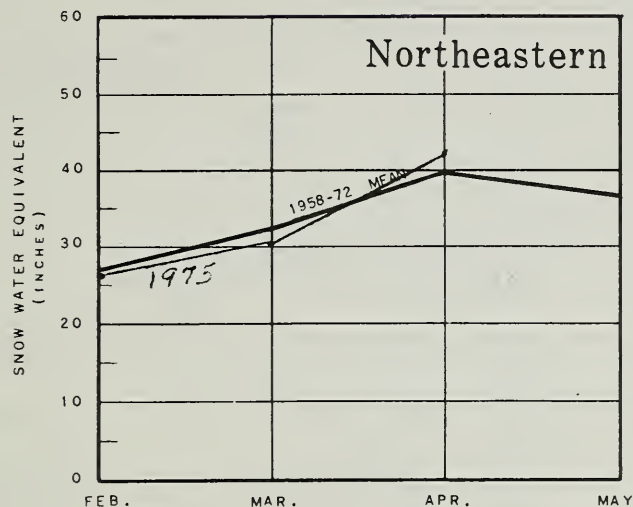
1/ - Preliminary analysis by National Weather Service from data furnished by Meteorological Services of Canada and the National Weather Service.

2/ - Departure from 15-year (1958-72) drainage division average.

# WASHINGTON SNOW COVER

1975

## DRAINAGE AREAS

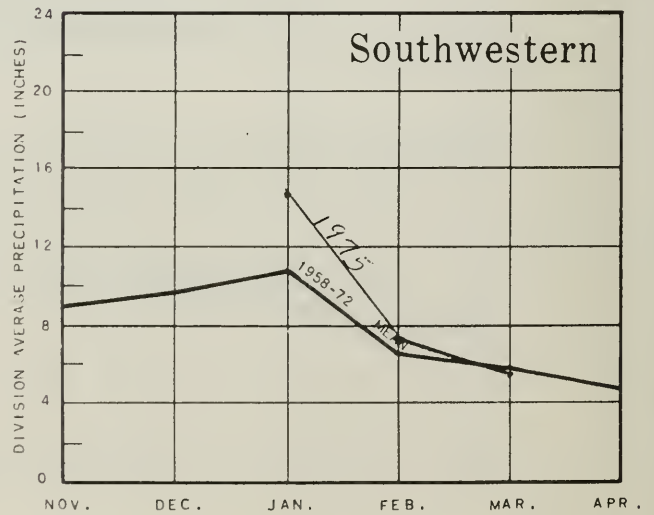
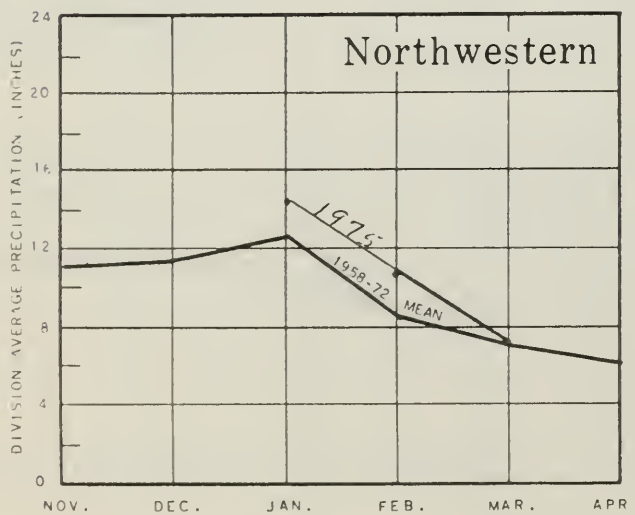
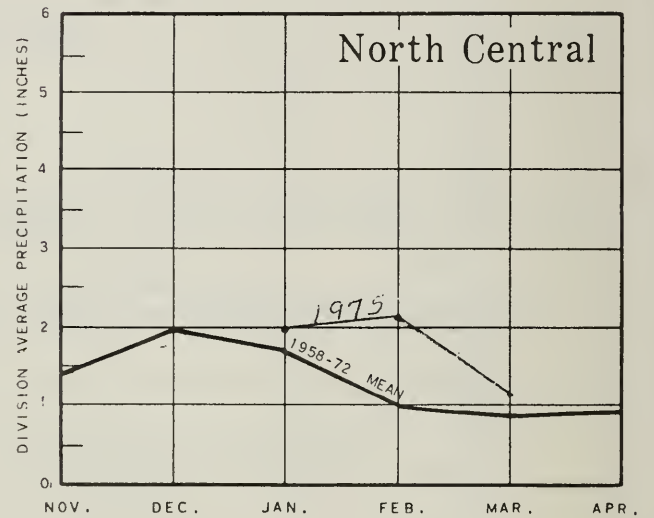
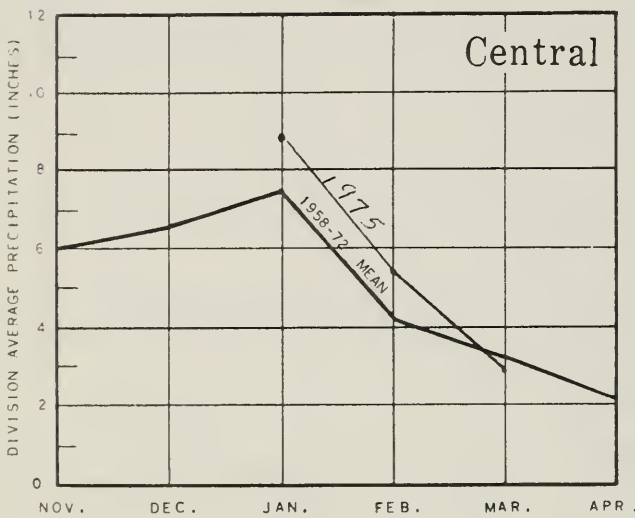
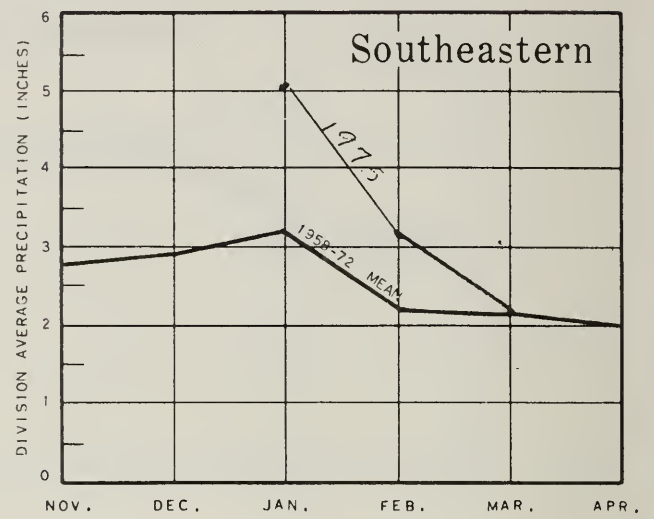
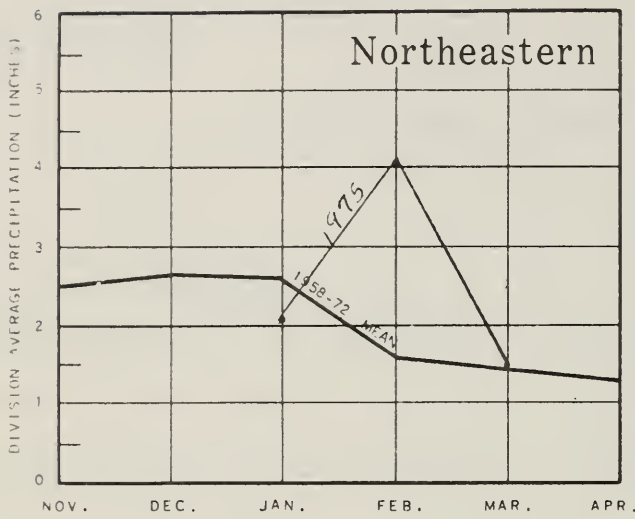


*Selected Snow Survey Courses by Soil Conservation Service*

# WASHINGTON VALLEY PRECIPITATION

1975

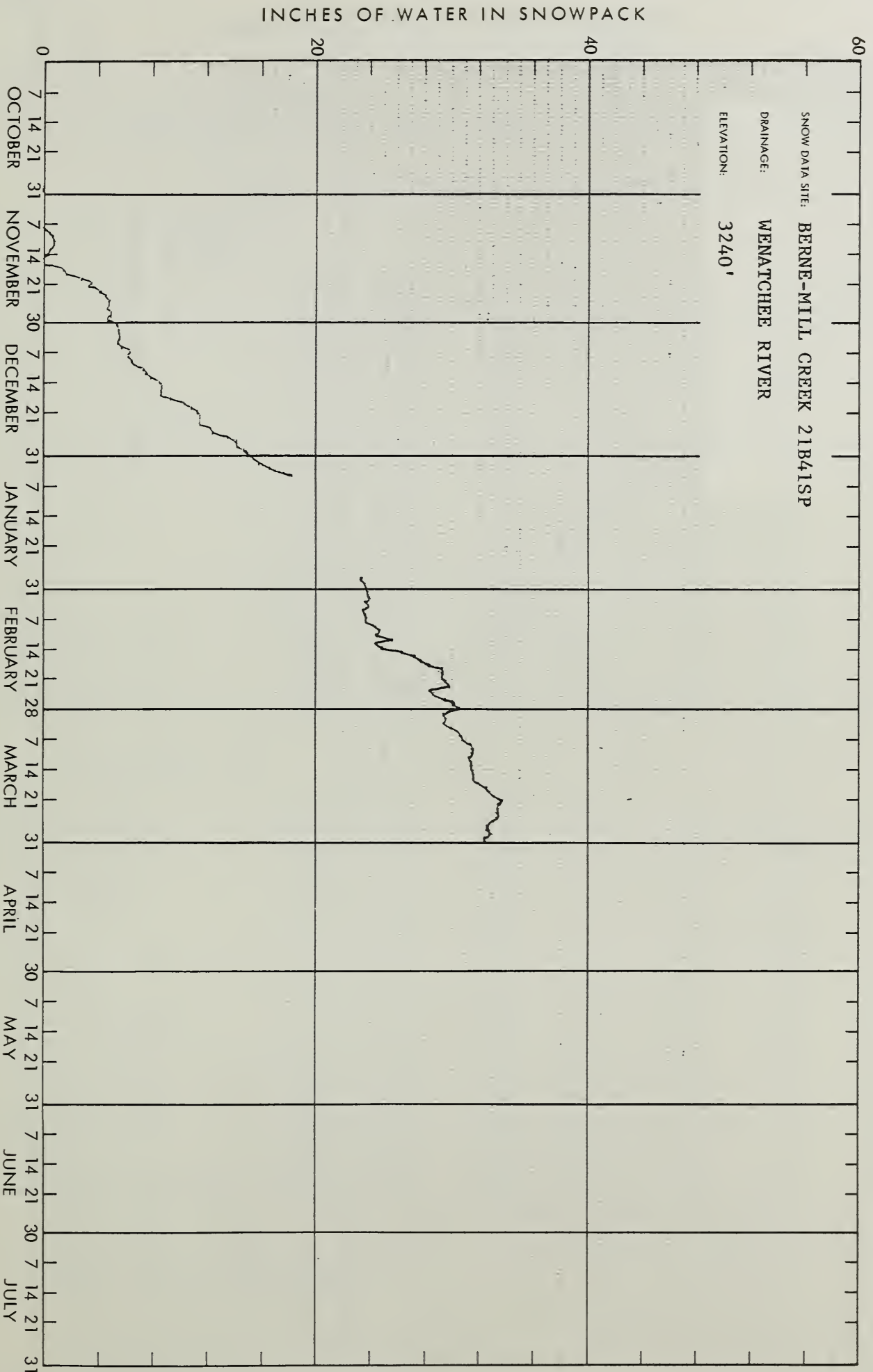
## DRAINAGE AREAS



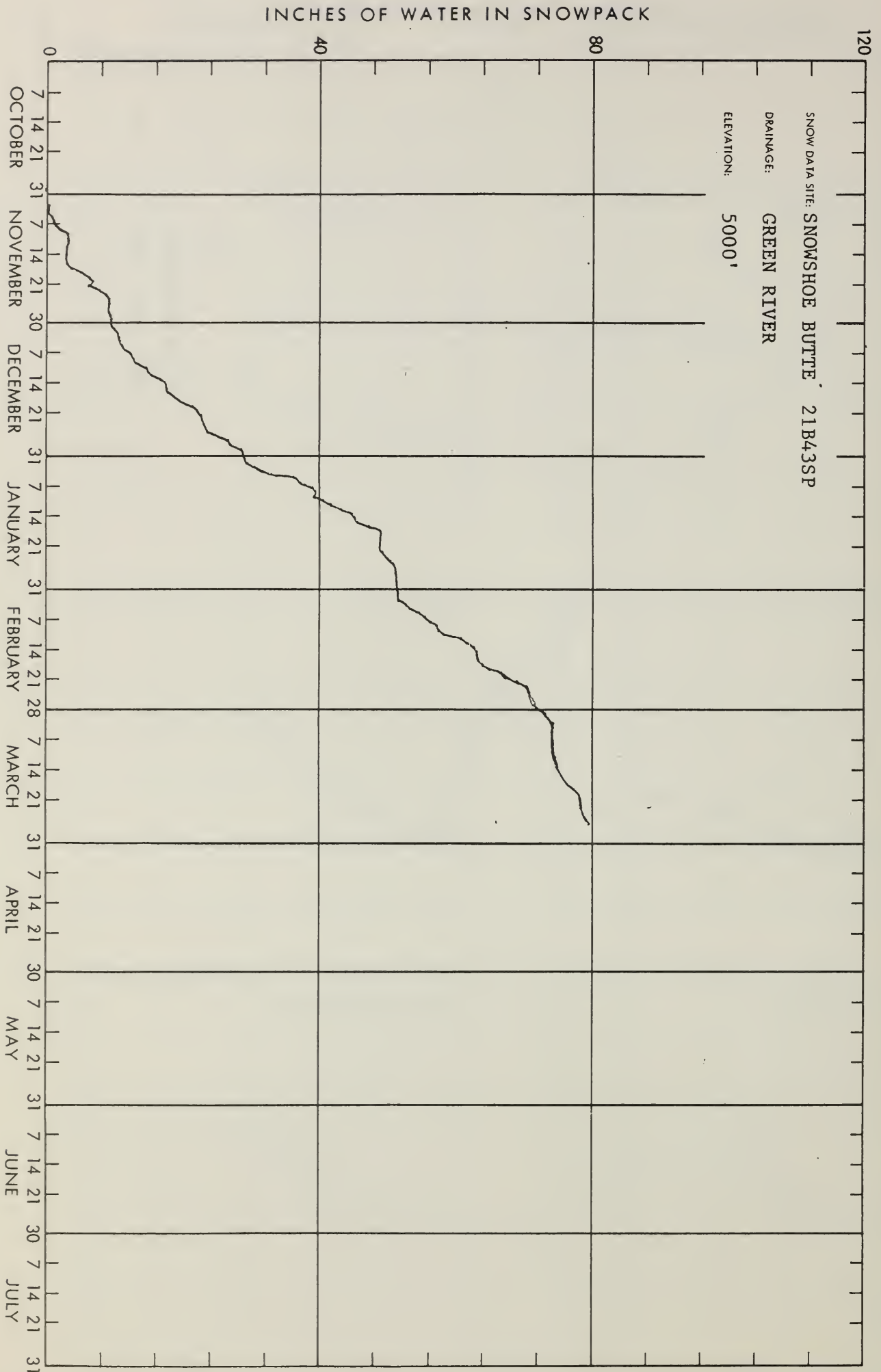
Preliminary Analysis by National Weather Service



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## SNOW DATA TO APRIL 1, 1975 - APPENDIX 1

## SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Number	Elevation				Last Year	Average #

## U P P E R C O L U M B I A D R A I N A G E

PEND OREILLE RIVER

Baree Creek	15B11	5500	4/1	144	59.1	75.0	49.4
Baree Midway	15B16	4600	4/1	125	49.8	54.1	37.7
Baree Trail	15B15	3800	4/2	45	15.3	15.4	9.6
Benton Meadow	16A02	2344	3/28	26	8.8	2.4	3.4
Benton Spring	16A03	4900	3/28	72	23.8	32.1	19.4
Boyer Mountain	17A02	5250	3/28	94	33.2	41.6	27.9
Brush Creek Timber	14A13	5000	3/26	43	12.6	13.0	-
Bunchgrass Meadow	17A01	5000	3/28	96	36.1	46.2	31.4
Chewelah	17A04	4923	3/29	64	21.0	-	18.5
Heart Lake Trail	14C10	4800	4/1	86	28.7	33.0	23.4
Hoodoo Basin	15C10	6000	4/1	149	56.8	73.6	53.8
Hoodoo Creek	15C01	5900	4/1	142	51.7	67.7	50.3
Lookout	15B02	5250	3/28	119	42.4	47.1	38.1
Mosquito Ridge	16A04A	5100	3/31	119	46.0	57.6	40.3
Nelson	19-Can	3050	3/27	61	20.1	20.8	15.7*
Schweitzer Bowl	16A06	4500	3/27	115	40.5	45.3	31.7
Schweitzer Ridge	16A05	6100	3/27	172	70.4	66.0	48.3
Smith Creek	16A01	4800	4/2	149	55.4	70.5	48.5
Winchester Creek	17A03	2970	3/26	50	15.4	13.2	11.8

KETTLE RIVER

Barnes Creek	90-Can	5300	3/30	65	22.1	23.6	21.2*
Big White Mtn.	154-Can	5500	3/31	72	27.0	30.0	19.8*
Boulder Road	18A02	1450	3/27	12	4.3	1.6	2.6
Butte Creek	18A03	4070	3/27	45	12.3	14.3	10.1
Cabin Creek	18A08	3170	3/27	36	10.5	10.8	9.2
Carmi	126-Can	4100	3/31	34	11.4	8.6	6.3*
Farron # 1	17-Can	4000	3/26	54	15.3	18.8	13.4*
Farron # 2	243-Can	4000	3/26	54	16.2	18.9	New
Goat Creek	18A04	3595	3/27	31	9.0	8.9	6.0
Graystoke Lake	5-Can	5950	3/26	62	20.2	28.5	23.1*
Monashee Pass	48A-Can	4500	3/30	48	15.9	15.8	14.1*
Old Glory Mtn.	42-Can	7000	3/31	100	36.8	48.6	28.3*
Snow Caps Creek	18A05	2150	3/27	14	5.3	1.8	2.3
Snow Caps Trail	18A06	2720	3/27	22	7.1	5.9	5.7
Summit G. S.	18A07	4600	3/27	40	11.7	10.4	8.6
Trapping Creek Lower	166-Can	3050	3/31	45	15.2	5.4	3.3*
Trapping Creek Upper	165-Can	4450	3/31	25	8.6	14.4	9.5*

# Average based on 1958-72 average

\* Average for years of record

## SNOW DATA TO APRIL 1, 1975 - APPENDIX 2

## SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Number	Elevation				Last Year	Average #

COLVILLE RIVER

Baird	17A06	3215	3/28	39	11.8	9.3	5.7
Carlson	18A09	2885	3/29	26	9.6	0.0	2.6
Chewelah	17A04	4925	3/29	64	21.0	-	18.5
Stranger Mountain	17A05	4990	3/29	57	18.7	22.6	14.6
Togo	18A10	3370	3/29	61	20.0	17.0	12.5

SPOKANE RIVER

Above Burke	15B08	4100	3/28	87	32.2	31.3	25.6
Above Roland	15B07	4350	3/31	107	40.9	50.2	35.8
Below Roland	15B06	3770	3/31	55	20.2	21.8	17.4
Copper Ridge	16B02	4800	3/27	97	38.0	41.6	30.1
Forty-nine Meadows	15B03	5000	3/28	103	30.6	41.8	34.9
Fourth of July Summit	16B03	3100	3/28	40	13.7	14.2	7.8
Granite Peak	15B13A	6000	3/28	144	43.2	59.0	47.5
Kellogg Peak	16B05A	5560	3/31	107	40.4	52.9	34.7
Lookout	15B02	5250	3/28	119	42.4	47.1	38.1
lost Lake	15B14A	6000	3/28	186	63.2	89.2	62.1
Lower Sands Creek	16B01	3400	3/27	64	22.2	31.2	20.7
Medicine Ridge	15B04A	6150	3/28	143	43.8	60.6	48.1
Mosquito Ridge	16A04A	5110	3/31	119	46.0	57.6	40.3
Roland Summit	15B05A	5200	3/31	118	44.8	59.5	39.2
Sherwin	16C01	3200	3/27	57	20.8	22.7	13.8
Sunset	15B09A	5600	3/31	115	41.8	52.0	39.3

SANPOIL RIVER

Sherman Creek Pass	18A01	5350	3/27	61	18.5	24.3	15.5
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OKANOGAN RIVER

Aberdeen Lake	6-Can	4300	3/30	35	10.2	6.8	6.1*
Blackwall Peak	100-Can	6250	3/27	94	35.4	49.3	35.3*
Bouleau Creek	31-Can	5000	3/31	52	17.9	16.9	12.0*
Bouleau Lake	234-Can	4580	3/29	62	22.0	20.3	16.3*
Brenda Mine	193-Can	4800	3/27	55	18.1	19.1	14.0*
Brookmere	27-Can	3200	3/27	42	11.5	11.2	9.8*
Carrs Landing Upper	168-Can	3200	3/29	25	7.9	4.1	3.2*
Clark +	19A08a	7000	3/31	84	30.2	42.2	23.3
Enderby	130-Can	6250	3/28	112	32.1	58.2	38.9*
Esperon Creek Lower	164-Can	4400	3/31	50	16.9	18.1	12.9*
Esperon Creek Middle	163-Can	4700	3/31	58	21.2	23.9	15.9*
Esperon Creek Upper	162-Can	5400	3/31	68	25.5	31.7	19.5*
Freezeout Meadows New	20A38	5000	3/27	110	43.0	82.5	29.9

# Average based on 1958-72 average

\* Average for years of record

+ Snow water equivalent estimated from aerial stadia observation



## SNOW DATA TO APRIL 1, 1975 - APPENDIX 3

## SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Number	Elevation				Last Year	Average #

OKANOGAN RIVER (Cont.)

Graystoke Lake	5-Can	5950	3/26	62	20.2	28.5	23.1*
Hamilton Hill	107-Can	4900	3/26	56	17.7	18.6	16.0*
Harts Pass	20A05A	6500	3/27	131	50.7	70.1	47.2
Horseshoe Basin +	19A05a	7000	3/31	64	23.7	26.6	13.5
Isintok Lake	152-Can	5510	3/29	37	11.6	13.4	8.1*
Lost Horse Mountain	105-Can	6300	Late Report			14.6	9.1*
Loup Loup	19A07	4650	3/28	39	12.3	17.3	9.3
McCulloch	4-Can	4200	3/22	37	10.0	9.8	6.7*
Missezula Mountain	106-Can	5100	3/27	43	12.9	14.2	8.4*
Mission Creek	5A-Can	6000	3/26	74	25.3	29.8	20.0*
Monashee Pass	48A-Can	4500	3/30	48	15.9	15.8	14.1*
Mount Kobau	156-Can	5950	4/1	47	14.9	23.7	13.6*
Muckamuck +	19A09a	6390	3/31	55	19.8	30.7	17.8
Mutton Creek No. 1	19A01	5700	3/27	57	16.4	28.4	14.2
Mutton Creek No. 2	19A04	6000	3/27	50	15.6	26.8	15.4
Mutton Creek No. 2 SP	19A11SP	6000	3/28	-	12.5	22.6	New
New Copper Mountain	46A-Can	4300	3/28	26	7.0	7.0	5.3*
New Penticton Res. #2	183-Can	5225	4/1	42	9.5	13.0	8.8*
Nickel Plate Mtn.	47-Can	6200	3/29	34	11.6	12.3	7.9*
Oyama Lake	203-Can	4400	3/31	34	9.8	9.0	7.5*
Paysayten +	20A28a	4300	3/31	64	23.7	20.4	16.0
Postill Lake	55-Can	4500	3/31	37	12.3	13.7	8.9*
Quartette Lake	34-Can	4000	3/28	43	11.3	16.1	15.1*
Rusty Creek	19A03	4000	3/26	35	9.5	13.4	7.0
Salmon Meadows	19A02	4500	3/28	43	11.2	18.7	10.3
Silver Star Mountain	99-Can	6050	3/28	89	35.1	43.9	27.7*
Starvation Mtn. +	19A10a	6750	3/31	65	23.4	31.1	21.9
Summerland Reservoir	3A-Can	4200	3/31	46	15.1	12.6	9.3*
Touts Coulee	19A06	2845	3/27	14	4.5	2.9	1.1
Trout Creek	3-Can	4700	3/29	40	12.1	9.6	7.5*
Vaseux Creek	233-Can	4600	3/28	35	8.4	8.6	7.7*
White Rocks Mountain	70-Can	6000	3/26	90	36.5	40.2	22.9*

ENTLAT RIVER

Blue Creek G. S.	20B28a	5425	3/28	126	47.9	57.8	New
Brief	20B19	1600	3/22	21	8.0	0.0	4.0
Entiat Meadows +	20A33a	4800	3/28	138	52.4	72.4	48.1
Entiat River Trail +	20A34a	3150	3/28	79	27.6	28.9	21.3
Four Mile Ridge +	20B27a	7000	3/28	100	38.0	51.6	-
Fox Camp +	20A36a	6510	3/28	154	58.5	75.7	59.0
Pope Ridge	20B20	4300	3/25	70	24.5	28.3	16.9
Pugh Ridge +	20A32a	6400	3/28	105	36.8	58.7	39.6
Shady Pass	20A37	6200	3/26	93	35.7	45.1	-
Snow Brushy +	20A35a	3850	3/28	129	45.2	52.8	40.9
Tommy Creek +	20B21a	5300	3/28	84	31.9	39.1	27.1

# Average based on 1958-72 average

\* Average for years of record

+ Snow water equivalent estimated from aerial stadia observation



## SNOW DATA TO APRIL 1, 1975 - APPENDIX 4

## SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Number	Elevation				Last Year	Average <sup>#</sup>

METHOW RIVER

Billy Goat Pass +	20A10a	6409	3/31	94	34.8	44.4	32.0
Dollar Watch +	20A29a	7000	3/31	89	32.9	40.0	29.3
Harts Pass	20A05A	6500	3/27	131	50.7	70.1	47.2
Horseshoe Basin +	19A05a	7000	3/31	64	23.7	26.6	13.5
Loup Loup	19A07	4650	3/28	39	12.3	17.3	9.3
Mutton Creek No. 1	19A01	5700	3/27	57	16.4	28.4	14.2
Mutton Creek No. 2	19A04	6000	3/27	50	15.6	26.8	15.4
Mutton Creek No. 2 SP	19A11SP	6000	3/27	-	12.5	22.6	New
Rusty Creek	19A03	4000	3/26	35	9.5	13.4	7.0
Salmon Meadows	19A02	4500	3/28	43	11.2	18.7	10.3
War Creek Pass +	20A31a	6500	Drifted Over			56.6	43.5

CHELAN LAKE BASIN

Cloudy Pass +	20A22a	6500	3/25	146	58.4	77.8	54.0
Little Meadows +	20A24a	5275	3/25	148	59.2	79.2	45.8
Lyman Lake	20A23A	5900	3/25	179	72.5	91.6	61.5
Park Creek Ridge	20A12A	4600	3/27	142	55.2	61.6	46.1
Rainy Pass	20A09	4780	3/27	125	46.4	63.2	41.6
Safety Harbor	20A30A	6300	Not Measured			44.3	29.9
War Creek Pass +	20A31a	6500	Drifted Over			56.6	43.5

WENATCHEE RIVER

Berne-Mill Creek	21B23	3170	3/14	93	37.3	-	-
			3/31	99	40.5	48.0	27.6
Berne-Mill Creek New SP	21B41SP	3240	3/31	83	36.2	42.2	23.3
Blewett Pass No. 2	20B02	4270	3/28	53	21.1	26.0	16.5
Chiwaukum G. S.	20B16	1810	3/14	36	13.6	-	-
			3/31	35	12.2	15.9	10.5
Fish Lake	21B04	3371	3/25	115	43.5	50.6	35.1
Lake Wenatchee	20B05	1970	3/14	48	18.4	-	-
			3/31	43	16.6	18.4	11.9
Leavenworth R. S.	20B17	1127	3/12	8	3.4	1.4	-
			4/1	0	0.0	0.0	0.7
Lyman Lake	20A23A	5900	3/25	179	72.5	91.6	61.5
Merritt	20B18	2140	3/14	63	22.3	-	-
			3/31	61	23.2	22.4	14.9
Stevens Pass	21B01	4070	3/14	146	61.8	83.1	50.8
			3/31	159	64.7	77.0	53.7
Stevens Pass Sand Shed	21B45	3700	3/14	106	42.8	64.8	-
			3/31	114	49.0	60.8	-

# Average based on 1958-72 average

+ Snow water equivalent estimated from aerial stadia observation

## SNOW DATA TO APRIL 1, 1975 - APPENDIX 5

## SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Number	Elevation				Last Year	Average <sup>#</sup>

SQUILCHUCK CREEK

Beehive Springs	20B03	4400	3/27	34	12.0	15.1	7.8
Scout-A-Vista	20B04	3400	3/27	35	12.3	11.8	6.9

STEMILT CREEK

Jump-Off	20B08	4450	3/26	37	13.4	12.8	8.0
Stemilt Slide	20B06	5000	3/26	52	18.7	12.3	15.5
Upper Wheeler	20B07	4400	3/26	38	15.7	11.4	9.0

COLOCKUM CREEK

Colockum Creek Upper	20B22	5300	3/28	50	19.5	20.3	-
Colockum Creek Lower	20B23	4300	3/28	37	12.2	13.5	-

YAKIMA RIVER

Ahtanum R. S.	21C11	3100	3/26	32	13.0	10.6	5.2
Big Boulder Creek	21B09	3200	3/25	78	27.7	39.0	18.0
Blewett Pass No. 2	20B02	4270	3/28	53	21.1	26.0	16.5
Bumping Lake	21C08	3450	3/21	68	21.6	27.9	16.9
			3/31	58	20.9	28.2	16.2
Bumping Lake New	21C36	3400	3/21	85	27.9	34.6	21.4
			3/31	73	26.5	36.2	20.7
Cayuse Pass	21C06	5300	3/27	245	97.9	129.9	90.2
Colockum Pass	20B09	5370	3/31	55	18.9	23.6	17.4
Cooke Creek	20B10	4123	3/31	33	11.6	11.4	5.1
Corral Pass	21B13	6000	3/27	151	54.9	63.7	41.6
Fish Lake	21B04	3371	3/25	115	43.5	50.6	35.1
Green Lake	21C10	6000	3/26	125	36.3	46.8	36.2
Grouse Camp	20B11	5385	Not Measured			25.3	17.1
High Creek	20B12	2930	4/1	21	7.4	8.6	2.3
Joe Lake	21B46a	4624	3/24	217	86.8	98.9	-
Lake Cle Elum	21B14M	2200	3/14	35	13.4	13.0	7.8
			3/28	36	14.2	7.8	4.5
Lemah Creek +	21B47a	3327	3/24	148	56.2	64.5	-
Manashtash	20C01	3935	3/28	25	8.2	7.4	2.2
Morse Lake	21C17	5400	3/28	176	68.6	-	61.9
Nanum	21B39	2340	4/1	39	12.2	13.9	8.2
Olallie Meadows	21B02	3625	3/27	158	59.4	89.1	48.8
Satus Pass	20D01	4030	3/31	49	16.6	16.2	8.6
Stampede Pass SP	21B10	3860	3/16	-	56.6	66.8	41.2
			4/1	-	57.2	61.1	43.4
Trail Creek	20B14	3360	3/31	Trace	0.0	0.0	0.1
Tunnel Avenue	21B08	2450	3/13	81	33.0	36.2	24.0
			3/27	91	35.6	35.8	24.1

# Average based on 1958-72 average

+ Snow water equivalent estimated from aerial stadia observation

## SNOW DATA TO APRIL 1, 1975 - APPENDIX 6

## SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Number	Elevation				Last Year	Average #

YAKIMA RIVER (Cont.)

Van Epps Pass +	20B26a	5925	3/24	146	52.6	74.4	-
Walters Flat	20B15	3360	4/1	27	10.4	10.6	5.3
Waptus Lake +	21B49a	3024	3/24	138	52.4	59.8	-
White Pass (E. Side)	21C28	4500	3/18	92	30.6	39.7	24.7
			4/2	90	32.4	36.9	25.9
White Pass (L. Lake)	21C27	4500	3/28	103	37.9	44.9	31.1

AHTANUM CREEK

Ahtanum R. S.	21C11	3100	3/26	32	13.0	10.6	5.2
Green Lake	21C10	6000	3/26	125	36.3	46.8	36.2

LOWER COLUMBIA DRAINAGEASOTIN CREEK

Spruce Springs	17C04	5700	3/30	85	31.1	39.5	26.6
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MILL CREEK

Homestead	17C01	4030	4/2	32	13.9	16.9	7.3
Martin Springs	17C02	4400	4/2	57	18.4	25.7	14.2
Tollgate	18D3M	5070	3/26	84	30.7	48.4	25.1

KLICKITAT RIVER

Satus Pass	20D01	4030	3/31	49	16.6	16.2	8.6
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WHITE SALMON RIVER

Cultus Creek	21C12	4000	3/27	143	51.4	82.7	49.4
Surprise Lakes	21C13A	4250	3/28	150	59.7	87.3	53.9

WIND RIVER

Old Man Pass	21D19	3100	3/28	63	20.3	32.9	19.7
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# Average based on 1958-72 average

+ Snow water equivalent estimated from aerial stadia observation



## SNOW DATA TO APRIL 1, 1975 - APPENDIX 7

## SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME	Number	Elevation				Last Year	Average #

LEWIS RIVER

Blue Lake +	21C22a	4800	3/27	248	99.2	132.0	84.8
Bob's Trail	21C21	2200	3/28	45	15.5	24.2	15.1
Calamity Ridge +	22D01a	2500	3/28	20	7.0	5.5	5.6
Council Pass +	21C18a	4200	3/27	134	51.5	63.4	42.9
Cultus Creek	21C12	4000	3/27	143	51.4	82.7	49.4
Divide Meadow +	21C29a	5600	3/27	170	66.3	79.2	60.6
Grand Meadow	21C25	3500	3/27	86	32.3	44.1	27.7
Lone Pine Shelter	21C26	3800	3/27	128	44.9	83.2	43.3
Marble Mountain +	22C05a	3200	3/27	83	34.0	68.6	38.2
Mosquito Meadows	21C19	4100	3/27	129	45.3	74.1	44.9
New Muddy River	22C06	2000	3/28	15	5.7	3.4	9.5
Old Man Pass	21D19	3100	3/28	63	20.3	32.9	19.7
Plains of Abraham +	21C1a	4400	3/27	188	73.3	108.9	71.8
Smith Creek Road	22C04	2100	3/28	43	17.1	23.9	17.7
Spencer Meadow +	21C20a	3400	3/28	74	28.1	47.8	25.7
Surprise Lakes	21C13A	4250	3/28	150	59.7	87.3	53.9
Table Mountain +	21C24a	4200	3/27	154	58.5	77.4	48.8
Timbered Pead +	21D18a	3000	3/28	58	20.3	33.1	17.8

COWLITZ RIVER

Cayuse Pass	21C06	5300	3/27	245	97.9	129.9	90.2
Mosquito Meadows	21C19	4100	3/27	129	45.3	74.1	44.9
Ohanapecosh	21C32	2200	3/27	52	22.6	20.5	15.7
Packwood Lake	21C31	2870	3/27	40	16.6	23.3	13.1
Pigtail Peak	21C33	5900	3/28	183	70.7	84.0	64.7
Plains of Abraham +	21C01a	4400	3/27	188	73.3	108.9	71.8
Potato Hill	21C14	4500	3/27	113	42.4	54.9	33.3
White Pass (E. Side)	21C28	4500	3/18	92	30.6	39.7	24.7
			4/2	90	32.4	36.9	25.9
White Pass (L. Lake)	21C27	4500	3/28	103	37.9	44.9	31.1
Willame Creek	21C30	3250	3/27	96	36.0	55.6	31.4

PUGET SOUND DRAINAGENISQUALLY RIVER

Ghost Forest	21C04	4550	3/27	142	55.7	71.3	48.0
Longmire	21C03	2760	3/27	38	15.3	23.5	10.2
New Paradise Park	21C35	5500	3/27	220	91.0	108.8	74.1
Stem Glade	21C01	5050	3/27	211	85.1	95.6	73.4

# Average based on 1958-72 average

+ Snow water equivalent estimated from aerial stadia observation

## SNOW DATA TO APRIL 1, 1975 - APPENDIX 8

## SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Number	Elevation				Last Year	Average #

WHITE RIVER

Cayuse Pass	21C06	5300	3/27	245	97.9	129.9	90.2
Corral Pass	21B13	6000	3/27	151	54.9	63.7	41.6
Morse Lake	21C17	5400	3/28	176	68.6	-	61.9

GREEN RIVER

Airstrip	21B24	1800	3/27	23	10.2	0.0	1.3
Charley Creek	21B25	1200	3/27	0	0.0	0.0	0.0
Cougar Mountain SP	21B42SP	3200	3/27	76	33.0	36.6	-
Grass Mtn. No. 2	21B27	2900	3/27	72	26.0	41.7	24.4
Grass Mtn. No. 3	21B28	2100	3/27	36	13.7	1.5	4.4
Lester Creek	21B29	3100	3/27	96	34.4	40.2	27.0
Lynn Lake	21B50	4000	3/27	77	31.3	51.7	-
Sawmill Ridge	21B29	4700	3/27	123	47.8	61.0	41.5
Snowshoe Butte SP	21B43SP	5000	3/27	178	69.4	-	-
Stampede Pass SP	21B10	3860	3/16	-	56.6	66.8	41.2
			4/1	-	57.2	61.1	43.4
Twin Camp	21B30	4100	3/27	95	35.5	44.5	25.9

CEDAR RIVER

City Cabin	21B03	2390	3/28	65	26.6	31.8	15.5
Mt. Gardner	21B21	3300	3/28	60	26.1	33.5	18.0
Mt. Lindsay	21B16	2500	3/31	62	23.3	24.4	15.9
Mt. Washington	21B15	3000	3/31	40	16.1	16.4	7.5
Rex River	21B17	2400	3/31	72	28.4	33.2	13.5
S. F. Cedar	21B06	3000	3/28	90	34.0	38.3	20.6
Tinkham Creek	21B20	3400	3/28	99	40.0	48.7	23.7

SNOQUALMIE RIVER

Alpine Meadow	21B48	3500	3/27	136	56.0	82.0	-
Lake Elizabeth	21B19	2900	3/26	130	47.6	82.8	48.5
Olallie Meadows	21B02	3625	3/27	158	59.4	89.1	48.8
S. F. Tolt	21B18	1900	3/27	11	4.2	0.0	0.8

SKYKOMISH RIVER

Lake Elizabeth	21B19	2900	3/26	130	47.6	82.8	48.5
Stevens Pass	21B01	4070	3/14	146	61.8	83.1	50.8
			3/31	159	64.7	77.0	53.7
Stevens Pass S. Shed	21B45	3700	3/14	106	42.8	64.8	-
			3/31	114	49.0	60.8	-

# Average based on 1958-72 average



## SNOW DATA TO APRIL 1, 1975 - APPENDIX 9

## SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME	Number	Elevation				Last Year	Average <sup>#</sup>

SKAGIT RIVER

Beaver Creek Trail	21A04	2200	3/28	57	22.8	18.2	12.6
Beaver Pass	21A01	3680	3/28	95	34.6	56.2	33.7
Brown Top	21A28a	6000	3/27	182	71.8	90.2	-
Cloudy Pass	20A22a	6500	3/25	146	58.4	-	54.0
Devils Park	20A04	5900	3/27	132	51.0	67.2	45.6
Freezeout Cr. Trail	20A01	3500	3/27	48	15.4	19.2	12.5
Freezeout Meadows New	20A38	5000	3/27	110	43.0	82.5	29.9
Granite Creek	21A29A	3500	3/27	65	22.2	24.6	11.4
Harts Pass	20A05A	6500	3/27	131	50.7	70.1	47.2
Klesilkwa	35B-Can	3700	4/1	53	21.6	21.6	15.3*
Lyman Lake +	20A23A	5900	3/25	179	72.5	-	61.5
Meadow Cabins	20A08	1900	3/28	27	10.1	2.8	6.0
New Hozomeen Lake	21A30	2800	3/27	50	16.0	17.8	-
New Tashme	26A-Can	2500	4/1	44	16.9	14.6	10.8*
Quartette Lake	34-Can	4000	3/28	43	11.3	16.1	15.1*
Rainy Pass	20A09A	4780	3/27	125	46.4	63.2	41.6
Thunder Basin	20A07	4200	3/28	102	39.2	35.8	23.9

BAKER RIVER

Baker Pass +	21A27a	4900	3/29	224	89.6	-	-
Dock Butte	21A11A	3800	3/29	183	74.8	110.6	71.3
Easy Pass	21A07A	5200	3/29	226	96.0	-	87.0
Jasper Pass	21A06A	5400	3/29	239	96.0	-	93.6
Komo Kulshan	21A17	800	3/30	24	10.3	0.0	6.0
Marten Lake	21A09A	3600	3/29	201	80.2	125.0	78.1
Mount Blum +	21A18a	5800	3/29	178	71.2	-	-
Panorama New	21A26	4300	3/13	156	73.2	111.5	-
			4/1	187	70.7	112.0	-
Rocky Creek	21A12A	2100	3/29	97	39.0	51.9	29.2
Schreibers Meadow	21A10A	3400	3/29	175	71.4	104.2	65.6
S. F. Thunder Creek	21A14A	2200	3/30	36	13.9	7.6	5.3
Sulphur Creek	21A13	1600	3/30	47	19.4	18.0	13.6
Three Mile Creek	21A15	4500	3/30	3	1.2	0.0	1.7
Watson Lakes	21A08A	4500	3/29	168	67.6	107.5	71.2

NOOKSACK RIVER

Bald Mountain +	21A19a	4400	3/28	159	60.4	92.2	51.0
Canyon +	21A20a	5100	3/28	183	73.2	115.2	60.0
Glacier Creek	21A23	3700	3/27	81	30.4	43.2	23.4
Panorama New	21A26	4300	3/13	156	73.2	111.5	-
			4/1	187	70.7	112.0	-
Twin Lakes +	21A21a	5200	3/28	218	87.2	121.9	79.1

# Average based on 1958-72 average

\* Average for years of record

+ Snow water equivalent estimated from aerial stadia observation

## SNOW DATA TO APRIL 1, 1975 - APPENDIX 10

## SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Number	Elevation				Last Year	Average #

O L Y M P I C P E N I N S U L AMORSE CREEK

Cox Valley	23B14	4500	4/1	114	43.5	60.9	-
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ELWHA RIVER

Hurricane	23B03	4500	3/30	77	26.7	36.8	26.1
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SKOKOMISH RIVER

Black & White	23B07	4200	3/27	142	49.2	69.5	45.6
Black & White Lakes	23B06	4700	3/27	178	71.8	95.0	68.7
Four Streams	23B10	3000	3/27	121	41.2	56.6	34.7
Home Sweet Home	23B05	5200	3/27	211	82.7	113.7	80.6

# Average based on 1958-72 average

# Agencies Assisting with Snow Surveys

## GOVERNMENT AGENCIES

### Canada:

Department of Lands, Forests and Water Resources,  
Water Resources Service, British Columbia

### States:

Washington State Department of Ecology  
Washington State Department of Natural Resources

### Federal:

Department of the Army  
Corps of Engineers  
U. S. Department of Agriculture  
Forest Service  
U. S. Department of Commerce  
NOAA, National Weather Service  
U. S. Department of the Interior  
Bonneville Power Administration  
Bureau of Reclamation  
Geological Survey  
National Park Service

## PUBLIC AND PRIVATE UTILITIES

Chelan County P.U.D.  
Pacific Power and Light Company  
Puget Sound Power and Light Company  
Washington Water Power Company

## OTHER PUBLIC AGENCIES

Okanogan Irrigation District  
Wenatchee Heights Irrigation District

## MUNICIPALITIES

City of Tacoma  
City of Seattle

*Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.*



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